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L4 ANSWER 1 OF 5 AGRICOLA Compiled and distributed by the National

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(2004) on STN

ACCESSION NUMBER: 95:62336 AGRICOLA

DOCUMENT NUMBER: IND20483313

TITLE: Genes from Lycopersicon chmielewskii affecting tomato

quality during fruit ripening.

AUTHOR(S): Azanza, F.; Kim, D.; Tanksley, S.D.; Juvik, J.A.

CORPORATE SOURCE: University of Illinois, Urbana, IL.

AVAILABILITY: DNAL (442.8 Z8)

SOURCE: Theoretical and applied genetics, Aug 1995. Vol. 91,

No. 3. p. 495-504

Publisher: Berlin; Springer-Verlag CODEN: THAGA6; ISSN: 0040-5752

NOTE: Includes references

PUB. COUNTRY: West Berlin DOCUMENT TYPE: Article

FILE SEGMENT: Non-U.S. Imprint other than FAO

LANGUAGE: English

Three chromosomal segments from the wild tomato, L. chmielewskii, introgressed into the L. esculentum genome have been previously mapped to the middle and terminal regions of chromosome 7 (7M, 7T respectively), and to the terminal region of chromosome 10 (10T). The present study was designed to investigate the physiological mechanisms controlled by the 7M and 7T segments on tomato soluble solids (SS) and pH, and their genetic regulation during fruit development. The effects of 7M and 7T were studied in 64 BC(2)F(5) backcross inbred lines (BILs) developed from a cross between LA 1501 (an L. esculentum line containing the 7M and 7T fragments from L. chmielewskii), and VF145B-7879 (a processing cultivar). BILs were classified into four homozygous genotypes with respect to the introgressed segments based on RFLP analysis, and evaluated for fruit chemical characteristics at different harvest stages. Gene(s) in the 7M fragment reduce fruit water uptake during ripening

increasing pH, sugars, and SS concentration. Gene(s) in the 7T fragment were found to be associated with higher mature green fruit starch concentration and red ripe fruit weight. Comparisons between tomatoes ripened on or off the vine suggest that the physiological mechanisms influenced by the L. chmielewskii alleles are dependent on the translocation of photosynthates and water during fruit ripening.

L4 ANSWER 2 OF 5 CABA COPYRIGHT 2004 CABI on STN

ACCESSION NUMBER: 1998:1229 CABA DOCUMENT NUMBER: 19970311628

TITLE: Salinity effects on some postharvest quality factors

in a commercial tomato hybrid

AUTHOR: Balibrea, M. E.; Cayuela, E.; Artes, F.;

Perez-Alfocea, F.

CORPORATE SOURCE: Department of Irrigation and Salinity, Centro de

Edafologia y Biologia Aplicada del Segura, CSIC,

P.O. Box 4195, E-30080-Murcia, Spain.

SOURCE: Journal of Horticultural Science, (1997) Vol. 72,

No. 6, pp. 885-892. 19 ref.

ISSN: 0022-1589

DOCUMENT TYPE:

Journal English

LANGUAGE: ENTRY DATE:

Entered STN: 19980113



Last Updated on STN: 19980113

The commercial tomato F1 hybrid Radja (GC-793) was cultivated in AΒ soil beds at low (control), moderate (70 mM NaCl) and high (140 mM) salinities under greenhouse conditions for 14 weeks. The effects of different salinities on fruit weight and major chemical components determining fruit quality were assessed. Red-ripe fruits were harvested to determine fruit weight, size and composition. The water content and mineral composition were determined in whole fruits; the carbohydrate, organic acid and soluble protein contents were determined in pericarp tissue. Moderate salinity reduced the fresh and dry fruit weights by only 10 and 13%, respectively, while high salinity reduced them by 40 and 33% compared with control fruits. The water content was not significantly affected by salinity. Thus, fruit weight does not seem to be limited by the water supply under these conditions. Fruit Na content significantly increased only at high salinity, while fruit Ca and Mg contents were not affected. K content, which represents more than 70% of the mineral composition, tended to increase with salinity. The citric acid content slightly increased at moderate salinity, while both citric and malic acid contents were reduced at high salinity, increasing the citric:malic ratio. Fruit pH values were always about 4. The low content of soluble proteins was reduced by high salinity, while moderate salinity increased it. In pericarp tissue of fruits in the moderate salinity treatment, the fructose and glucose contents were three times and twice as high as in control and high salinity treatments. Starch, sucrose and myo-inositol also accumulated under salinity. Hexoses and starch accounted for 20, 66 and 42% of the pericarp dry matter in control, moderate and high salinity treatments, respectively.

L4 ANSWER 3 OF 5 CABA COPYRIGHT 2004 CABI on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

95:178068 CABA 19951611170

TITLE:

Genes from Lycopersicon chmielewskii affecting

tomato quality during fruit ripening

AUTHOR:

Azanza, F.; Kim, D.; Tanksley, S. D.; Juvik, J. A. Department of Horticulture, University of Illinois,

Urbana, IL 61801, USA.

SOURCE:

Theoretical and Applied Genetics, (1995) Vol. 91,

No. 3, pp. 495-504. 24 ref.

ISSN: 0040-5752

DOCUMENT TYPE: LANGUAGE:

CORPORATE SOURCE:

Journal English

ENTRY DATE:

Entered STN: 19951020

Last Updated on STN: 19951020

Three chromosomal segments from the wild tomato L. chmielewskii AB introgressed into the L. esculentum genome were previously mapped to the middle and terminal regions of chromosome 7 (7M and 7T, respectively), and to the terminal region of chromosome 10 (10T). The present study was designed to investigate the physiological mechanisms controlled by the 7M and 7T segments on tomato soluble solids (SS) and pH, and their genetic regulation during fruit development. The effects of 7M and 7T were studied in 64 BC2F5 backcross inbred lines (BILs) developed from a cross between LA1501 (an L. esculentum line containing the 7M and 7T fragments from L. chmielewskii), and VF145B-7879 (a processing cultivar). BILs were classified into four homozygous genotypes with respect to the introgressed segments based on RFLP analysis, and evaluated for fruit chemical characteristics at different harvest stages. Gene(s) in the 7M fragment reduced fruit water uptake during ripening, thereby increasing pH, and concentrations of sugars and SS. Gene(s) in the



7T fragment were found to be associated with higher mature green fruit starch concentration and red ripe fruit weight. Comparisons between tomatoes ripened on or off the vine suggested that the physiological mechanisms are dependent on the translocation of photosynthates and water during fruit ripening.

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STN

ACCESSION NUMBER: 1997264768 ESBIOBASE

TITLE: Salinity effects on some postharvest quality factors

in a commercial tomato hybrid

AUTHOR: Balibrea M.E.; Cayuela E.; Artes F.; Perez-Alfocea F.

CORPORATE SOURCE: M.E. Balibrea, Dept. of Irrigation and Salinity, Ctr.

Edafologia/Biol. Apl. del Seg., CSIC, P.O. Box 4195,

E-30080-Murcia, Spain.

SOURCE: Journal of Horticultural Science, (1997), 72/6

(885-892), 19 reference(s) CODEN: JHSCA8 ISSN: 0022-1589

DOCUMENT TYPE: Journal; Article COUNTRY: United Kingdom

LANGUAGE: English SUMMARY LANGUAGE: English

AB The commercial F1 tomato hybrid (Lycopersicon

esculentum L. Mill) cv. Radja (GC-793) was cultivated with low (control), moderate (70 mM NaCl) and high (140 mM) salinities under greenhouse conditions for 14 weeks. The effects of different salinity levels on fruit weight and major chemical components determining fruit quality were assessed. Red ripe fruits were harvested to determine fruit weight, size and composition. The water content and mineral composition were determined in whole fruits; the carbohydrate, organic acid and soluble protein contents were analyzed in pericarp tissue. Moderate salinity reduced the fresh and dry fruit weights by only 10 and 13%, respectively, while high salinity reduced them by 40 and 33% compared with control fruits. The water content was not significantly affected by salinity. Thus, fruit weight does not seem to be limited by the water supply under these conditions. The amount of Na.sup.+ significantly increased only at high salinity, while Ca.sup.2.sup.+ and Mg.sup.2.sup.+ contents were not affected. K.sup.+ content, which represents more than 70% of the mineral composition, tends to increase with salinity. The citric acid content slightly increased at moderate salinity, while both citric and malic acids contents were reduced at high salinity, increasing the citric/malic ratio. The pH values were always about 4. The low content in soluble proteins was reduced by high salinity, while moderate salinity increased it. In pericarp tissue of moderately treated fruits, the fructose and glucose contents were three times and twice as high as control and highly salinized-ones. Starch, sucrose and myo-inositol also accumulated under salinity. Hexoses and starch accounted for 20, 66 and 42% of the pericarp dry matter in control, moderate and highly salinized fruits, respectively.

L4 ANSWER 5 OF 5 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 97:846265 SCISEARCH

THE GENUINE ARTICLE: YF311

TITLE: Salinity effects on some postharvest quality factors in a

commercial tomato hybrid

AUTHOR: Balibrea M E (Reprint); Cayuela E; Artes F; PerezAlfocea F

CORPORATE SOURCE: CSIC, CTR EDAFOL & BIOL APLICADA DEL SEGURA, DEPT IRRIGAT & SALIN, POB 4195, E-30080 MURCIA, SPAIN (Reprint); CSIC,



CTR EDAFOL & BIOL APLICADA DEL SEGURA, DEPT FOOD SCI &

TECHNOL, E-30080 MURCIA, SPAIN

COUNTRY OF AUTHOR: SPAIN

SOURCE: JOURNAL OF HORTICULTURAL SCIENCE, (NOV 1997) Vol. 72, No.

6, pp. 885-892.

Publisher: HEADLEY BROTHERS LTD, INVICTA PRESS, ASHFORD,

KENT, ENGLAND TN24 8HH.

ISSN: 0022-1589.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT:

AGRI English

LANGUAGE:

Engli 19

REFERENCE COUNT:

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

The commercial F1 tomato hybrid (Lycopersicon AB esculentum L. Mill) cv. Radja (GC-793) was cultivated with low (control), moderate (70 mM NaCl) and high (140 mM) salinities under greenhouse conditions for 14 weeks. The effects of different salinity levels on fruit weight and major chemical components determining fruit quality were assessed. Red ripe fruits were harvested to determine fruit weight, size and composition. The water content and mineral composition were determined in whole fruits; the carbohydrate, organic acid and soluble protein contents were analyzed in pericarp tissue. Moderate salinity reduced the fresh and dry fruit weights by only 10 and 13%, respectively, while high salinity reduced them by 40 and 33% compared with control fruits. The water content was not significantly affected by salinity. Thus, fruit weight does not seem to be limited by the water supply under these conditions. The amount of Naf significantly increased only at high salinity, while Ca2+ and Mq2+ contents were not affected. K+ content, which represents more than 70% of the mineral composition, tends to increase with salinity. The citric acid content slightly increased at moderate salinity, while both citric and malic acids contents were reduced at high salinity, increasing the citric/malic ratio. The pH values were always about 4. The low content in soluble proteins was reduced by high salinity, while moderate salinity increased it. In pericarp tissue of moderately treated fruits, the fructose and glucose contents were three times and twice as high as control and highly salinized-ones. Starch, sucrose and myo-inositol also accumulated under salinity. Hexoses and starch accounted for 20, 66 and 42% of the pericarp dry matter in control, moderate and highly salinized fruits, respectively.

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=> s tomato or lycopersicon
        110072 TOMATO OR LYCOPERSICON
L1
=> s dry(w) matter(w) content
          5793 DRY(W) MATTER(W) CONTENT
L2
=> s 11 and 12
           328 L1 AND L2
L3
=> s 13 and breed?
            42 L3 AND BREED?
T.4
=> d 14 1-42 ti so au py
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     (2004) on STN
     Fine mapping of QTLs of chromosome 2 affecting the fruit architecture and
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     Breeding to increase the colour and dry matter
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Advances in Plant Sciences, (Dec., 1998) Vol. 11, No. 2, pp. 105-110.

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- TI Some results of **breeding** work with tomatoes for glasshouse cultivation.
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- PY 1971
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- SO Agrartudomanyi Kozlemenyek, (1971) Vol. 30, No. 4, pp. 579-584.
- AU Farkas, J.; Andrasfalvy, A.
- PY 1971
- L4 ANSWER 41 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI [Breeding and establishing the tomato line 54/66]. Crearea liniei de tomate 54/66 si stabilirea agrotehnicii ei.
- SO Analele Institutului de Cercetari pentru Legumocultura si Floricultura, (1971) Vol. 1, pp. 85-97. 5 ref.
- AU Otvos, Z.
- PY 1971
- L4 ANSWER 42 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI The use of heterosis, a leading trend in plant breeding.
- SO Doklady Vsesoyuznoi Ordena Lenina Akademii Sel'skokhozyaistvennykh Nauk Imeni V.N. Lenina, (1972) No. 12, pp. 11-12.
- AU Brezhnev, D. D.
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- of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- TI Breeding to increase the colour and dry matter content of the tomato for processing
  Az ipari paradicsom szin es szarazanyagtartalmanak fokozasara iranyulo nemesitesi munkank
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- SO Budapest Magyar Tud Akad Agrartud Osztalyanak Kozlemeny, Dec 1970 Vol. 29, No. 3, pp. 219-225.
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- TI Heterosis and inbreeding depression for acidity total soluble solids, reducing sugar and dry matter content in tomato (Lycopersicon esculentum Mill.).
- AU Shrivastava, Arun Kumar [Reprint author]
- SO Advances in Plant Sciences, (Dec., 1998) Vol. 11, No. 2, pp. 105-110. print.
  ISSN: 0970-3586.
- PY 1998
- AB Nine superior varieties of tomato were crossed as per diallel design. Performance of nine parents and their 36 F1's and 36 F2 's was studied to assess the manifestation of heterosis and inbreeding depression for quality traits during winter season, 1992. The crosses showing maximum heterosis were Marglobe X Hisar Arun (22.44%) for acidity, NT-3 X HS-101 (23.59%) for total soluble solids, Pusa Ruby X Money Maker (47.36%) for reducing sugar and sel. -18 X Marglobe (54.41%) for dry matter content. Considering most of the traits, the good performing hybrids were Marglobe X HS-101, Marglobe X Hisar Arun, Marglobe X NT-3, Pusa Ruby X Marglobe, NT-3 X HS 101 and may be successfully exploited in hybrid varietal development programme to get high quality hybrids for processing industry. Inbreeding depression was also observed, though it varied from cross to cross.
- L4 ANSWER 6 OF 42 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- TI Combining ability analysis for total solube solids, reducing sugars, dry matter content and seeds weight in tomato: (Lycopersicon esculentum Mill.).
- AU Shrivastava, Arun Kumar [Reprint author]
- SO Advances in Plant Sciences, (Dec., 1998) Vol. 11, No. 2, pp. 17-22. print. ISSN: 0970-3586.
- PY 1998
- AB Nine superior varieties of tomato were crossed as per diallel design. Higher 62GCA:62SCA ratio exhibited additive gene effects in both the generations for TSS, reducing sugars, dry matter content and seed weight suggesting their exploitation through simple breeding methods. Among parents Pusa Ruby was the best combiner for TSS (0.84, 0.70), reducing sugar (0.42, 0.26) and dry matter content (1.02, 0.64), while Punjab Chhuhara was the best for low seed weight per fruit (-46.30, -34.48). The best specific combiners for various traits were Pusa Ruby X Money Maker for TSS, reducing sugar, Sel-18 X Marglobe for dry matter content and Pusa Ruby X Pusa Early Dwarf for low seed weight per fruit.
- L4 ANSWER 12 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI Combining ability analysis for total soluble solids, reducing sugars, dry matter content and seeds weight in tomato. (Lycopersicon esculentum Mill.).
- AU Shrivastava, A. K.
- SO Advances in Plant Sciences, (1998) Vol. 11, No. 2, pp. 17-22. 8 ref. ISSN: 0970-3586
- PY 1998
- AB Nine superior varieties of **tomato** were crossed in a diallel fashion. Higher GCA:SCA ratio exhibited additive gene effects in both the

generations for fruit total soluble solids (TSS), fruit reducing sugars content, fruit dry matter content and seed weight suggesting their exploitation through simple breeding methods. Among parents Pusa Ruby was the best combiner for TSS (0.84, 0.70), reducing sugar (0.42, 0.26) and dry matter content (1.02, 0.64), while Punjab Chhuhara was the best for low seed weight per fruit (-46.30, -34.48). The best specific combiners for various traits were Pusa Ruby x Money Maker for TSS, reducing sugar, Sel-18 x Marglobe for dry matter content and Pusa Ruby x Pusa Early Dwarf for low seed weight per fruit.

- L4 ANSWER 15 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI Results of producing early forms of tomato with increased dry matter content.
- AU Kravchenko, V. A.
- SO Ovoshchevodstvo i Bakhchevodstvo, (1990) No. 35, pp. 64-67. Secondary Source: Referativnyi Zhurnal (1990) 9Ya3331
- PY 1990
- AB An account is given of the use of complex hybridization in **breeding** the new early Soviet varieties Zoren' and Boyan.
- L4 ANSWER 19 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI A new tomato variety.
- AU Kravchenko, V. A.
- SO Kartofel' i Ovoshchi, (1984) No. 7, pp. 17-18. ISSN: 0022-9148
- PY 1984
- The new variety Iskrinka was developed at the Kiev Fruit and Potato Experiment Station. Selected from a cross between Lyubimets Khozyaek ([female]) and breeding line 328 ([male]), it is high yielding, short and early. Although it only produces an average of 27 fruits/plant (compared with 41 in the [female] and 79 in the [male] parent), their heaviness (98 g) makes Iskrinka's yields (2.65 kg/plant) higher than those of either parent (2.07 in the [female] and 2.22 in the [male]). The fruits are oval and red with a dry matter content of 6.0%. They are suitable for processing to make paste, puree and juice and for preservation by salting. Suitable for outdoor cultivation, Iskrinka gave average yields of 53.2 t/ha in 1977-79 and 56.5 t/ha in 1980-83.
- L4 ANSWER 34 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI [Genetic factors in **breeding** for higher **dry**matter content in tomato].

  Genetikai tenyezok a paradicsom szarazanyag-tartalmanak novelesere
  iranyulo nemesitesi munkaban.
- AU Farkas, J.; Andrasfalvy, A.; Videki, L.
- SO Zoldsegtermesztes, (1972) Vol. 6, pp. 43-50. Secondary Source: Zoldsegtermesztesi Kutato Intezet Bulletinje (1974) 9, 186, 193
- PY 1972
- AB Dry-matter content was related to yield, fruit size and growth habit (sp or sp+). Determinate plants had a lower content than indeterminate, mainly as a result of the reduced leaf surface area. The presence of the gene Tm for tolerance of tobacco mosaic virus increased the content. The use of wild species as a source of increased dry-matter content in varieties for canning reduced yield, fruit size and earliness.
- L4 ANSWER 41 OF 42 CABA COPYRIGHT 2004 CABI on STN
- TI [Breeding and establishing the tomato line 54/66]. Crearea liniei de tomate 54/66 si stabilirea agrotehnicii ei.
- AU Otvos, Z.
- SO Analele Institutului de Cercetari pentru Legumocultura si Floricultura, (1971) Vol. 1, pp. 85-97. 5 ref.
- PY 1971

Line 54/66 is the result of complex hybridization. It has vigorous, determinate growth, reaching a height of between 80 and 90 cm. The fruit is round with an average weight of 115 g and a drymatter content of between 5 and 6%. It is resistant to Septoria lycopersici and blossom-end rot.

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